COMED

OPERATING INSTRUCTIONS
46 705 25/ 46 705 45

We thank you for choosing the Ultra-sonic cleaner distributed by COMED and we hope you will be satisfied. You can in any case join us for more information at our address below or contact us by e-mail at the following address: info@comed.fr

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I. Introduction

The ultrasonic cleaner series is developed with the introduction of advanced technology and is certified by the Technology Supervision Bureau.
These series are widely used in hospitals, medicine industry, colleges, research institutes, petroleum industry, chemistry industry, light industry,metallurgy industry, machinery industry, transportation industry and national defense industry, etc. These cleaners are used for the deep clean of the instruments, meters, electronic components, circuit boards, semiconductor silicon wafers, magnetic materials, electroplates, hardware, optical lens and its accessories, audio magnetic heads, terylene filters, spinnerets, latex moulds, medical appliances, glassware, bijouterie, clock accessories, precision hardware, bearings, nozzles, oil pumps, mechanical parts of complex geometrical shapes. The cleaners are the currently optimal cleaning machines for high effective and precision cleanings of deep holes, blind holes, rough surfaces. Proper cleaning solutions should be added to get better clean effects.

II. Principle

The ultrasonic cleaner is composed of ultrasonic generator, ultrasonic transducer and cleaning slot. The ultrasonic generator generates high frequency oscillator signals, and the ultrasonic transducer converts the signals to mechanical vibrations of high frequency at ten thousands per second to make ultrasonic waves in the cleaning solution. The ultrasonic waves spread in the cleaning solution in alternating negative and positive voltage high frequency forms so that it produces lots of mini bubbles and the bubbles burst continuously. It is called cavitation. An instant high pressure of 1000 atmospheric pressures will occur when the bubbles burst. The huge energies from the continuous bubble bursts impact strongly the parts' surfaces to make the dirt on the surfaces and in the gaps flake rapidly, so the parts are cleaned.

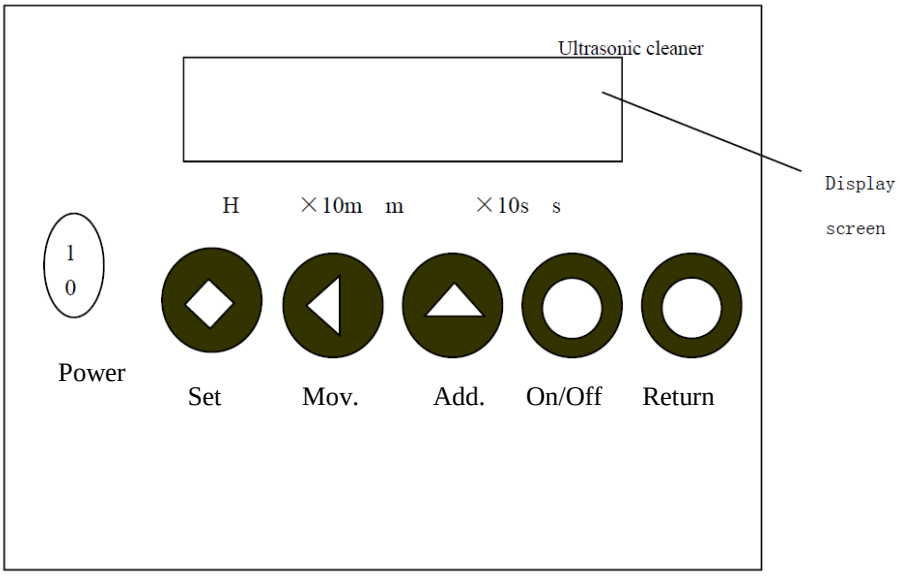
III. Specifications (for some types)

Reference	46 705 25	46 705 57
Size of the inner tank (mm)	240x140x100	240x140x150
Capacity (L)	3	5
Operating frequency (KHz)	40	40
Power (W)	120	120
Power supply (V)	220 V	220 V
Timing (min)	1s~9hours59mins59s	1s~9hours59mins59s
Rack	Yes	Yes
Drainage	No	No

IV. Use

1. The ultrasonic cleaner use 220V power supply and three line socket.
2. The cleaning slot should be fed with cleaning solution or water. The liquid level should not be lower than 1/3 cleaning slot depth and not be higher than 2/3 cleaning slot depth. (The best liquid level is the upper edge of the web basket. Add the proper detergents to strengthen the cleaning effect according to different cleaning requirements. All the detergents should not be corrosive to the cleaning slot and the machine body. It is prohibited to use acid and alkali as cleaning solutions.
3. Place the to-be-cleaned parts into the steel basket. Set the cleaning time according to the dirt on the parts. Usually choose 3~30mins. It can extend the time properly for those parts what is difficult to be cleaned. (It is prohibited to place the to-be-cleaned parts directly on the bottom of the cleaning slot.)
4. Insert the power plug into the 220V three-line power outlet, turn on the power switch and set the ultrasonic time. Press Start/Stop key to start operation, now the liquid surface has spider web waves and sounds can be heard.

V. Screen



Turn on the power switch and set the ultrasonic time. Press set key to flash the digit of second. Press Increase key (0~9) to set the desired value. Press Shift key to flash the min digit. Press Increase key (0~5) to set the desired value. Press Shift key to flash the ten mins digit. Press Increase key (0~5) to set the desired value. Press Shift key to flash the hour digit. Press Increase key (0~9) to set the desired value. Press Set key again to save the time setting. Press Start/Stop key to start operation. And Press Start/Stop key to pause. Press Start/Stop key and Reset key to set the new time by repeating the above steps.

VI. Cleaning solution selection matrix

Cleaning solution sorts: Select the different parameters to achieve the best cleaning effect according to the different objects.

Cleaning item	Cleaning liquid
mechanism parts	5-10%
Metal parts	
metal scraps	
Metal oxide	
Rust	
watch chain	
Polishing item	
Electrical components	
PCB board	
Optics instruments	
Optics glass	
Magnet materials	
Gold & silver	
Jewelry	
Platinum	

VII. Cautions

1. Read the instructions before using the machine.
2. Connect to the mains.
3. Use only water or water mixed with cleaning fluid to fill the tank.
4. Do not put the object directly into the tank to clean it but in the basket.
5. Turn off and unplug when adding detergent or water.
6. To avoid any risk, do not use flammable or corrosive solution as cleaning liquid
7. The water level should be between ½ and 2/3 of the tank.
8. Do not operate the machine if there is no water or cleaning liquid in the tank.
9. Do not touch the unit during operation.
10. When the machine is not used keep the tank clean and dry for a long time.

VIII. Maintenance

The cleaner is noble and should be used and maintained by special persons.
It should periodically inspect the cleaner thoroughly.

a) Check the power supply and the output terminals for loose, overheat, damp and contact.
b) Check if the ultrasonic power cooling wind can rotate.
c) Check for the leakages at the cleaning slot and the cleaning slot discharge outlet.
d) Contact the manufacturer if ultrasonic oscillator loosen and power tube burnt.
e) Do not use the cleaning solution of high acidity and alkalinity to avoid the corrosion of the inside cleaning slot.

IX. Warranty and standards :

Quality assurance COMED distributor / importer:

ISO 9001 : 2008
EN 13485 : 2012

WARRANTY

The product is guaranteed as having no defects in material or workmanship under normal use for a period of one year from the date indicated on the voucher .

Misuse, abuse or negligence, improper use, repairs, or unauthorized modifications will exlus this warranty. This warranty specifically excludes supplies and consumables, such as batteries. All warranty claims should be addressed to the distributor responsible for the sale of this unit. The content of this warranty may be subject to change without further notice.

Please return either by mail, fax, or email: qualite@comed.fr, good below within 15 days of purchase to obtain warranty service .
Attach a copy of the purchase invoice of the device**.**

WARRANTY TO RETURN TO COMED
Or to send to the followind email address : qualite@comed.fr

ULTRASONIC CLEANER
REF N°46 705 25 / 45

Serial number :
Name :
Address :

Stamp of the customer : **date :**

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